INSPIRON 14R/M421R/15R/M521R

Specifications

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Regulatory Model: P33G/P25F | Type: P33G001/P33G002/P25F001/P25F002

Computer Model: Inspiron 5420/5425/5520/5525/7420/7520

Dimensions	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Height (front and back)	28.88 mm to 31.60 mm (1.14 inches to 1.24 inches)	30.03 mm to 34.10 mm (1.18 inches to 1.34 inches)
Width	347.00 mm (13.66 inches)	378.00 mm (14.88 inches)
Depth	240.00 mm (9.45 inches)	252.00 mm (9.92 inches)
Weight (with 6-cell battery)	2.40 kg (5.30 lb) **NOTE:** The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability.	2.78 kg (6.13 lb) **NOTE:** The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability.

System Information	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Processor	• Intel Pentium dual core • Intel Core i3 • Intel Core i5 • Intel Core i7 • AMD A4-4300M • AMD A6-4400M • AMD A8-4500M • AMD A10-4600M	• Intel Pentium dual core • Intel Core i3 • Intel Core i5 • Intel Core i7 • AMD A4-4300M • AMD A6-4400M • AMD A8-4500M • AMD A10-4600M
System chipset	• Intel HM77 Express chipset • AMD A70M FCH chipset	• Intel HM77 Express chipset • AMD A70M FCH chipset

Memory	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Connectors	two internally-accessible DDR3 SODIMM sockets	two internally-accessible DDR3 SODIMM sockets
Capacities	2 GB and 4 GB	2 GB and 4 GB
Minimum memory	2 GB	2 GB
Maximum memory	8 GB	8 GB
Memory type	1600 MHz DDR3 SODIMM	1600 MHz DDR3 SODIMM
Memory configurations supported	2 GB, 4 GB, 6 GB, and 8 GB	2 GB, 4 GB, 6 GB, and 8 GB

Communications	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Modem (optional)	external V.92 56 K USB modem	external V.92 56 K USB modem
Network adapter	10/100 Ethernet LAN on system board (Inspiron 14R-5420, Inspiron M421R-5425) 10/100/1000 Ethernet LAN on system board (Inspiron 14R-7420)	10/100 Ethernet LAN on system board (Inspiron 15R-5520, Inspiron M521R-5525) 10/100/1000 Ethernet LAN on system board (Inspiron 15R-7520)
Wireless	WLAN, WiMax, Wi-Fi abgn/bgn, Wi-Di (optional), and Bluetooth wireless technology	WLAN, WiMax, Wi-Fi abgn/bgn, Wi-Di (optional), and Bluetooth wireless technology

Audio	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Controller	Conexant CX20672-21Z	Conexant CX20672-21Z
Speaker	2 W	2 W
Internal microphone support	single digital microphone in camera assembly	single digital microphone in camera assembly
Volume controls	program menus and keyboard media control keys	program menus and keyboard media control keys

Video	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Video type		
Integrated	Intel HD graphics (Inspiron 14R-5420)	• Intel HD graphics (Inspiron 15R-5520/7520) • AMD Radeon HD 7420G (Inspiron M521R-5525) • AMD Radeon HD 7520G (Inspiron M521R-5525) • AMD Radeon HD 7640G (Inspiron M521R-5525) • AMD Radeon HD 7660G (Inspiron M521R-5525)
Discrete	• NVIDIA GeForce GT630M (Inspiron 14R-5420) • NVIDIA GeForce GT640M (Inspiron 14R-7420) • AMD Radeon HD 7650M (Inspiron M421R-5425)	• AMD Radeon HD 7670M (Inspiron 15R-5520) • AMD Radeon HD 7730M (Inspiron 15R-7520) • AMD Radeon HD 7650M (Inspiron M521R-5525)

Video	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Video memory		
Integrated	Shared	Shared
Discrete	1 GB (Inspiron 14R-5420, Inspiron M421R-5425)	1 GB (Inspiron 15R-5520, Inspiron M521R-5525)
	2 GB (Inspiron 14R-7420)	2 GB (Inspiron 15R-7520)

Ports and Connectors	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Audio	one microphone-in port one stereo headphone/ microphone combo port one digital microphone	one microphone-in port one stereo headphone/ speaker port one digital microphone
Mini-Card	one half-size Mini-Card slot one full-size Mini-Card slot (optional) (Inspiron 14R-5420/7420)	one half-size Mini-Card slot one full-size Mini-Card slot (optional)
HDMI	one 19-pin port	one 19-pin port
Network adapter	one RJ45 port	one RJ45 port
USB	three 9-pin USB 3.0-compliant ports one 9-pin USB 3.0-compliant port with PowerShare and Windows debugging	three 9-pin USB 3.0-compliant ports one 9-pin USB 3.0-compliant port with PowerShare and Windows debugging
Media Card Reader	one 8-in-1 slot	one 8-in-1 slot
VGA	one 15-hole port	one 15-hole port
mSATA (optional)	one mSATA port that supports up to 32 GB (Inspiron 14R-5420/7420)	one mSATA port that supports up to 32 GB (Inspiron 15R-5520/7520)

Battery	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
6-cell "smart" lithium ion		
Height	20 mm (0.79 inches)	20 mm (0.79 inches)
Width	208 mm (8.19 inches)	208 mm (8.19 inches)
Depth	51 mm (2.00 inches)	51 mm (2.00 inches)
Weight	0.33 kg (0.73 lb)	0.33 kg (0.73 lb)
Voltage	11.1 VDC	11.1 VDC
Charge time (approximate)	4 hours (when the computer is turned off)	4 hours (when the computer is turned off)
Operating time	battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions	battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions
Coin-cell battery	CR-2032	CR-2032

Power adapter	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Type	65 W (Inspiron 14R-5420/7420) 90 W (Inspiron 14R-5420/7420, Inspiron M421R-5425)	65 W/90 W
Input voltage	100-240 VAC	100—240 VAC
Input current (maximum)	1.50 A/1.60 A/2.50 A (Inspiron M421R-5425) 1.50 A/1.60 A/1.70 A/ 2.50 A (Inspiron 14R-5420/7420)	1.50 A/1.60 A/ 1.70 A/2.50 A
Input frequency	50-60 Hz	50—60 Hz

Power adapter	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Output current (continuous)	3.34 A (Inspiron 14R-5420/7420) 4.62 A (Inspiron 14R-5420/7420, Inspiron M421R-5425)	3.34 A/4.62 A
Output power	65 W (Inspiron 14R-5420/7420) 90 W (Inspiron 14R-5420/7420, Inspiron M421R-5425)	65 W/90 W
Rated output voltage	19.50 +/– 1 VDC	19.50 +/–1 VDC
Temperature range		
Operating	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 40 °C (32 °F to 104 °F)
Storage	–40 °C to 70 °C (–40 °F to 158 °F)	–40 °C to 70 °C (–40 °F to 158 °F)

Media-card reader

Cards supported	• Secure Digital (SD) memory card • Secure Digital High Capacity (SDHC) • Secure Digital Extended Capacity (SDXC) with ultra high-speed • Memory Stick • Memory Stick PRO (MS-PRO) • Memory Stick Extended Capacity (MSXC) • MultiMedia Card (MMC) • MultiMedia Card plus (MMC+)

Touchpad	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
X/Y position resolution (graphics table mode)	240 cpi	240 cpi
Size		
Height	52.7 mm (2.07 inches) sensor-active area	52.7 mm (2.07 inches) sensor-active area
Width	97.0 mm (3.82 inches) rectangle	97.0 mm (3.82 inches) rectangle

Keyboard (backlit)	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Number of keys	102 (U.S.) 103 (United Kingdom) 106 (Japan) 105 (Brazil)	102 (U.S.) 103 (United Kingdom) 106 (Japan) 105 (Brazil)

Display	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Type	14.0" HD WLED TrueLife (1366 x 768) 14.0" HD+ WLED TrueLife (optional) (1600 x 900) (Inspiron 14R-5420/7420)	15.6" HD WLED TrueLife (1366 x 768) 15.6" FHD WLED, AG (optional) (1920 x 1080)
Maximum resolution	1600 x 900 (Inspiron 14R-5420/7420) 1366 x 768 (Inspiron M421R-5425)	1920 x 1080
Dimensions		
Height	173.95 mm (6.85 inches)	193.54 mm (7.62 inches)
Width	309.40 mm (12.18 inches)	344.23 mm (13.55 inches)
Diagonal	355.60 mm (14.00 inches)	396.42 mm (15.60 inches)
Refresh rate	60 Hz	60 Hz
Operating angle	0 degree (closed) to 135 degrees	0 degree (closed) to 135 degrees
Horizontal viewing angle	40/40	40/40
Vertical viewing angle	15/30 (H/L)	15/30 (H/L)
Pixel pitch	0.226 mm x 0.226 mm	0.252 mm x 0.252 mm

Camera	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Camera resolution	720p HD; 1280 x 720 pixels	720p HD; 1280 x 720 pixels
Video resolution (maximum)	1280 x 720 pixels	1280 x 720 pixels
Diagonal viewing angle	60 degrees	60 degrees

Computer environment	Inspiron 14R-5420/7420/ M421R-5425	Inspiron 15R-5520/7520/ M521R-5525
Temperature range		
Operating	0 °C to 35 °C (32 °F to 95 °F)	0 °C to 35 °C (32 °F to 95 °F)
Storage	–40 °C to 65 °C (–40 °F to 149 °F)	–40 °C to 65 °C (–40 °F to 149 °F)
Relative humidity (maximum)		
Operating	10 % to 90 % (non-condensing)	10 % to 90 % (non-condensing)
Storage	10 % to 95 % (non-condensing)	10 % to 95 % (non-condensing)
Maximum vibration (using a random vibration spectrum that simulates user environment)		
Operating	0.66 GRMS	0.66 GRMS
Storage	1.3 GRMS	1.3 GRMS
Maximum shock (Measured with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms half-sine pulse for storage)		
Operating	110 G	110 G
Storage	160 G	160 G
Altitude (maximum)		
Operating	–15.2 m to 3048 m (–50 ft to 10,000 ft)	–15.2 m to 3048 m (–50 ft to 10,000 ft)
Storage	–15.2 m to 10,668 m (–50 ft to 35,000 ft)	–15.2 m to 10,668 m (–50 ft to 35,000 ft)
Airborne contaminant level	G1 as defined by ISA-S71.04-1985	G1 as defined by ISA-S71.04-1985